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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,065	03/11/2004	Hideki Hirooka	250387US3	4698
22850	7590 05/26/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			HUG, ERIC J	
1940 DUKE : ALEXANDR	STREET IA, VA 22314		ART UNIT	PAPER NUMBER
	,		1731	
			DATE MAILED: 05/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M				
	Application No.	Applicant(s)					
	10/797,065	HIROOKA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Eric Hug	1731					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence address	s				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a re  - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a eply within the statutory minimum of this will apply and will expire SIX (6) MO ute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this community NBANDONED (35 U.S.C. § 133).	nication.				
Status							
1) Responsive to communication(s) filed on 11	March 2004.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ The	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
·							
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-5 is/are pending in the application	☑ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above daim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	, , , , , , , , , , , , , , , , , , , ,						
·	☐ Claim(s) <u>1-5</u> is/are rejected.						
8) Claim(s) are subject to restriction and	l/or election requirement.						
Application Papers	•						
9)☐ The specification is objected to by the Exami	ner.						
10)⊠ The drawing(s) filed on <u>11 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
• • • • • • • • • • • • • • • • • • • •	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-1	52.				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a li	st of the certified copies no	t received.					
Attachment(s)							
1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		o(s)/Mail Date Informal Patent Application (PTO-152	١				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ol>	6) Other: _		,				

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims do not set forth any steps involved in the method, therefore it is unclear what applicant is intending to encompass. A claim is indefinite where it does not recite any active, positive steps delimiting how the method is actually practiced. Merely reciting that the diameter ratio is set to a particular value does not constitute an active step.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Brendel (US 4,910,842). Brendel discloses a means for dampening vibrations of a press roll in a paper making machine. In column 1, lines 36-64, Brendel discusses that stacked rolls of equal diameter are prone to barring due to the presence of vibrations. Brendel states that one solution

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to the problem is the selection of different roll diameters, which would result in a diameter ratio of value different from 1.

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- 3. Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Ilmarinen et al (US 4,909,905). Ilmarinen discloses a press section of a paper making machine having reduced vibration. Center rolls 30A and 30B form press nips with hollow press rolls 25, 45, 55, and 57. The diameter of the center rolls is different from the diameter of the hollow rolls, therefore the nip rolls have a diameter ratio of value different from 1. See column 3, lines 9-37 and column 8, lines 40-51.
- 4. Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Schultz et al (US 6,251,207). Schultz discloses a method of reducing vibrations between two embossing rolls in a paper embossing process. As part of the method, the vibrations can be further reduced by making the embossing rolls of different diameters. See column 8, lines 12-19. This would result in the embossing rolls having a diameter ratio of value different from 1.

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## Allowable Subject Matter

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Claims 2-4 would be allowable if rewritten to overcome the rejection under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not disclose or suggest a method of restraining nip roll deformation, whereby the diameter ratio between the two nip rolls is set based on a relationship between the polygonal deformation of the two rolls as defined by the claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suomi et al (US 6,615,709) discloses a method of reducing vibrations in a calender stack.

Haag (US 6,851,356) discloses an arrangement of calender rolls for combating barring, by selection of suitable diameter combinations of the rolls and by displacement of one or more of the rolls from the pressing plane based on the natural vibration of the calender.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192. The examiner can normally be reached on Monday through Friday, 10:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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